

TECH DEFEATS OXY IN BASEBALL

	1	2	3	4	5	6	7	8	9	10	Total
Visitor	1	0	3	0	2	1	1	0	0		8
Home	4	1	0	2	0	0	0	0	2		9

BEAVERS POSE by score after first league win since 1970. Photo by Spears.

by Short Spears and Stanley
Centerfielder Tom Howell scored on a passed ball with two out in the bottom of the ninth to give the Caltech varsity baseball team a 9-8 victory over Occidental here Tuesday. Caltech second baseman Bob Pleva singled to drive in the tying run earlier in the inning, with Phil Gschwend sliding under the throw from right field to make the score 8-8.

Senior John Ellis pitched the last three innings of the game, allowing just one run, and was credited with Caltech's first league victory this year against six losses. Phil Gschwend, Cal-

tech senior, pitched the first six innings before he moved to left field. Gschwend allowed seven runs.

Early Lead

Caltech jumped to a 4-1 lead after the first inning. The Beavers tallied four times without a hit in the first frame, getting their runs on walks and wild pitches. The lead increased to 5-1, in the second but Oxy then scored three times in the third to narrow Tech's lead to 5-4. Doug Schladweiler doubled in Jerry Feely and Rich Short for Tech in the bottom of the fourth, giving Gschwend a 7-4 lead to work with. But Oxy scored twice in

the fifth, once in the sixth, and once in the seventh to take an 8-7 lead.

The Tech batters came up with no runs on only two hits until the last of the ninth. The first two batters struck out, and it looked bad for the home team. Then Gschwend watched a 3-2 pitch sail outside for ball four, and Tom Howell singled sharply through the hole into left. Bob Pleva drove the ball into right field to bring home Gschwend, and Howell moved to third. The count on John Dilles was one ball and two strikes when the ball bounced off the tip of the

Continued on Page Four

KNOCK, KNOCK

The CALIFORNIA Tech

WHO'S DOOR?

Volume LXXIV

Pasadena, California, Thursday, April 19, 1973

Number 25

ASCIT Musical Opens

by Philip Massey

The ASCIT Musical *The Pirates of Penzance* opens tonight in Ramo at 8:00 p.m. Produced by Bruce McLaughlin with the assistance of Kent Nakamoto, and with musical direction by John Middlebrooks, Gilbert and Sullivan's (two English majors) work revolves about a kid named Frederic (Jeff Gerstein) and his association with the British Navy.

I'm Impressed

It all began when little Fred's nurse, Ruth (Lorraine Brederick), misunderstands that he (Fred) wants to be a pilot and apprentices him to a band of pirates. Feeling a mite embarrassed, not to mention unemployed, she signs up too, as a "maid-of-all-work." (No, not that kind of work.) Unfortunately for all concerned, Fred does not care

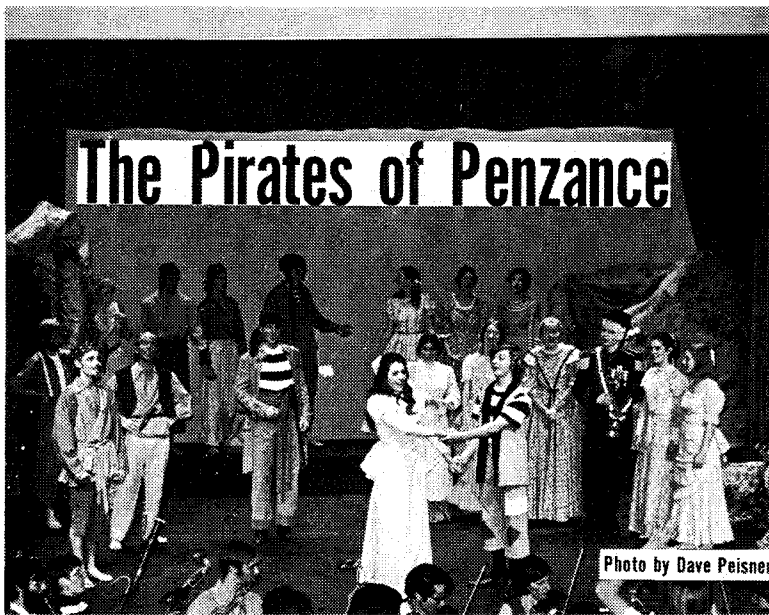


Photo by Dave Peisner

much for the ways of piracy and lawlessness and all that stuff, and plans to exterminate piracy. Once his term is up, that is. Sometime around then Ruth proposes (marriage) to him, and having never seen any other girls, he accepts. At this point some other girls walk by (at sea?) and Fred unaccepts.

It happens that all the girls are really wards of Major-General (of the British Navy) Stanley (Bruce McLaughlin), who is cousin (on his mother's side) of Sir Joe Porter of *Pinafore* fame. (Never mind.) One of the girls, Mabel (Wendy Wright-Dirkson) (who resembles Josephine, Sir

Continued on Page Four

Prereg Procedure Joins the Future

by Phil Neches

When pre-registration rolls around in a few weeks, the cards will have a new look. The thick packet of cards, one per class, will go the way of Graphics and frosh grades, making way for a new system for keeping student records which will shift much of the clerical burden to the computer.

According to Dr. William P. Schaefer, Registrar, the system will make records more readily accessible to administrative offices and students, and will eliminate much of the duplication of effort found now.

Write It Once

The new system, written in ASAP, a file management language somewhat like COBOL, will run on the 370/155 system in Booth, and will replace the rather primitive system now in use. The present system runs on an IBM 1401 in Business Services, and performs only the most rudimentary tasks: most of

the work is done by the ladies in the Registrar's Office.

One of the goals will be to avoid asking students to write the same thing down over and over. Rather, many things which consume ink on registration days will be asked of incoming freshmen on a questionnaire to be mailed out during the summer. Then only changes need to be indicated.

Pre-Registration

Pre-registration will involve filling out only one card listing the courses one plans to take for the next year. At registration, only two cards will be involved; one asking for any changes in local and home address, and a second which will list all of the courses a student is preregistered for. Gone forever (we hope) will be the days of making four copies of one's schedule as a part of the registration ritual.

After registration day, changing classes will be simplified by

Continued on Page Seven

Leaders Of America

Bond: Distance Of Ideals

by Etaoin Schroedlu

"The 1972 election was a national referendum on what is euphemistically referred to as 'the social issue,'" said Julian Bond last Thursday night in Ramo Auditorium. "That is to say, it was a referendum on us, black people."

Bond, a black Georgia state legislator, was speaking on campus under the auspices of the Caltech Y's Leaders of America program, which featured Dr. Art Galston, U.S. scientist who visited the People's Republic of China, earlier this year. Previous Leaders of America included Barry Goldwater, Martin Luther King Jr., Robert Oppenheimer, and William O. Douglas.

Bond Speaks Out

After a few introductory shafts hurled at the current U.S. President, Bond interpreted the 1972 election. "One party ran on the platform of 'four more

years,' and they got them. They may use these years to castrate budgets, set policies, name individuals to important positions in the Cabinet, the Supreme Court, and the FBI, and determine if your paychecks will buy more or less, and perhaps whether there is a paycheck at all."

The major source of problems in America today is the "distance between American ideals and the American reality," quoted Bond. In particular this can be seen in the plight of the black people in the United States. "It is true that our position is better than that of our parents, but relative to the white people, we are actually worse off than we were before," said Bond. "It is as though we are trying to climb a molasses mountain on snowshoes, while the rest of the nation takes a rather leisurely ski-lift to the top."

Bond went on to amplify the

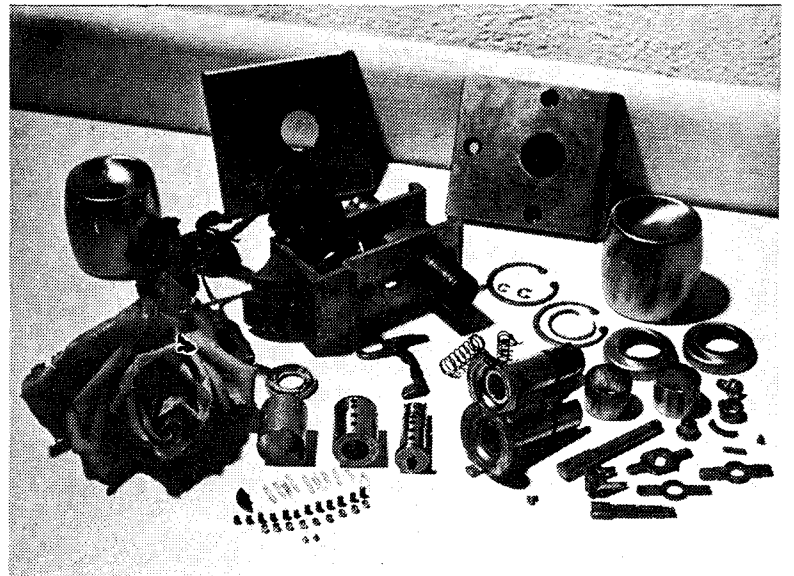
black's position in America. "As a retrospective study of the Viet Nam casualty lists shows, the black people in America are first in war, last in peace, and seldom in the hearts of their countrymen."

The Julian Calendar

"Reversing the recession of national concern must be on our agenda in the next decade. But this needs more than summer soldiers and sometimes agitators." Bond noted the lack of long-term commitments on the part of Americans to solving our problems: "The 1972 elections showed that college students won't stick with anything for very long. . . . Some young people today say, 'We've tried politics, and that didn't work, we've tried confrontation, and that didn't work, we've tried violence, and that didn't work,' so they give up, and don't try

Continued on Page Five

By Any Other Name...



A ROSE by any other name might smell as sweet, but apparently the old adage doesn't apply to the locks that adorn the roof door of Millikan Library. For an exclusive, third-person report, see the story on page three. Trademark registered.

Editorials

Close It Down

Negotiations with the City of Pasadena by Caltech officials for closing portions of San Pasqual Street have been under way for almost a year. The *Tech* overwhelmingly endorses this proposal.

The foremost reason is pedestrian traffic. During the past ten years, the number of campus buildings north of San Pasqual has grown from six to 17. Traffic engineers estimate that there were two million pedestrian crossings of San Pasqual last year. The addition of the undergraduate chemistry laboratory and (later this year) the behavioral biology building can only raise this figure.

With so many crossings, one can only wonder how Tech has escaped without having a serious accident, considering many drivers' disregard for the speed limit in the area. Last Friday, we were lucky. Fran Wetter, stepping into the crosswalk at the Chester intersection, was hit by a yellow cab that was clearly exceeding the speed limit and thrown several feet. Fortunately, she landed on her feet and was uninjured, except for hip bruises and a shaking-up. There was no obstruction of vision in the incident.

There are other reasons for asking for closure: campus unification, beautification, and so on, but the basic truth is that *San Pasqual is dangerous!* Last year, a group of Techers painted a crosswalk across San Pasqual in front of the newly-dedicated computing center, as an indication of their concern over the increasing traffic there. If a serious accident ever occurs on San Pasqual, we hesitate to guess what course Techers might take.

On April 26, an open hearing will be held in City Hall on the San Pasqual question. We think that all Techers who face this daily hazard should attend. Unless direct, positive action is taken on this proposal, we may not be so lucky next time.

Close down San Pasqual!

—Gavin D. Claypool
Eric H. Eichorn
Dennis L. Mallonee

Be Kind To Pirates

For the second year in a row, a group of interested students have joined together to produce a musical. Once again the success of this venture rides on the support of the Caltech community.

The road to completion has been rocky. After two student directors bowed out, the musical found harbor in the capable hands of Elliott Street. The task of finding suitable singers, musicians, and technical help *with* the time to devote to the show is almost beyond comprehension. And yet, the work by all involved hinges on Thursday,

Continued on Page Three

THE ASCIT FRIDAY NIGHT MOVIE

"WHO IS HARRY KELLERMAN AND WHY IS HE SAYING THOSE TERRIBLE THINGS ABOUT ME?"

This Friday in Baxter Lecture Hall
at 7:30 and 9:30 p.m.

Admission: 50¢—ASCIT members and their guests; \$1.00—anyone else

NEXT WEEK:

WELCOME HOME SOLDIER BOYS

Letters Alert Reader Shames Editor

I am writing in response to your article entitled "Copper Alloys Lose Heat" starting on page two of the *California Tech* of Thursday, April 12, 1973.

The article is very interesting and worthwhile reading except for one error, which is probably a misprint. The highest superconducting transition temperature thus far obtained is $T_c=21^\circ\text{K}$ and not 60°K . Considerable world-wide efforts have been made to find materials of ever-so-slightly increased T_c values. A transition temperature of 60°K (if it will ever be found) would revolutionize technology as regards energy transport and consumption. —Too bad your figure is the result of an error rather than of the millions of dollars that have been invested in research on superconductivity.

—Sten Samson
Noyes

[Dr. Samson is indeed correct—the 60°K figure should have been approximately 16°K . The *Tech* also received a call from Dr. Tsuei, the developer of the superconducting alloys, confirming the error. The editor apologizes for his math.]

ASCIT of Massey

Fly A Kite With ASCIT

by Phil Massey

Last Monday's BOD meeting saw the minutes approved and ...well, what do you want from an hour meeting?

The Second Annual Memorial Rik Smoody Kite Flying Contest will be held some time this term, at the whim of the secretary; Kruegar is to provide beer, cokes, and whatever else. (The kites will also be provided although participants should feel more than free to make their own.)

Nominations for class offices open today. They will be open until Tuesday, May 1, with the election the following Friday. If you think you can swing the awesome responsibilities connected with being a class officer, sign up on the official class officer sign up list that will be on Flora's door on the first floor of Winnett.

Garbage In

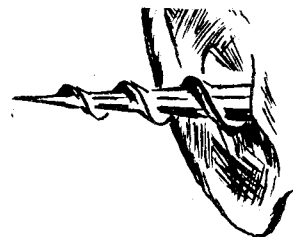
It was suggested by Johnson that there be a Weekly Saturday Night at the Poker Game to be held in the ASCIT Office, potato chips to be provided, and beer obtainable for even nothing. ("There are two qualities of beer—remember that.") About then Mariani and Massey each expressed some reservations about the idea (how restrained!), but it was decided that it might

be tried once or twice. Anyone wishing to play should show up this Saturday at 11 (in the BOD office??), and the person to call for bail is your R.A., not Dr. Bonner.

Garbage Out

Meetings will come equipped with Agendas (Agendae?) in the future. If you have anything you want brought up at a BOD meeting, you should, perhaps, in some way notify Massey (Ruddock) about it prior to 8:00 p.m. the Friday before the meeting. It was agreed to see how well this works out, but it is hoped that it would speed up meetings somewhat, by perhaps eliminating some of the unnecessary drivel that occurs.

The next BOD meeting will be held Tuesday (no, not Monday) in Winnett at 4:00 p.m. It will be some sort of planning meeting in, which—among other things—it will be planned who will go to Catalina, and whether we're really having a corporation meeting next month. Come and find out.



Jobs Is On The Way, Folks

by Gavin Claypool

Summer jobs as Tour Assistants [for tours to the Hawaiian Islands and Grand Canyon] are being offered by Odyssey Enterprises. The position consists of performing functions in the areas of administration, planning, passenger assistance, and leisure activities.

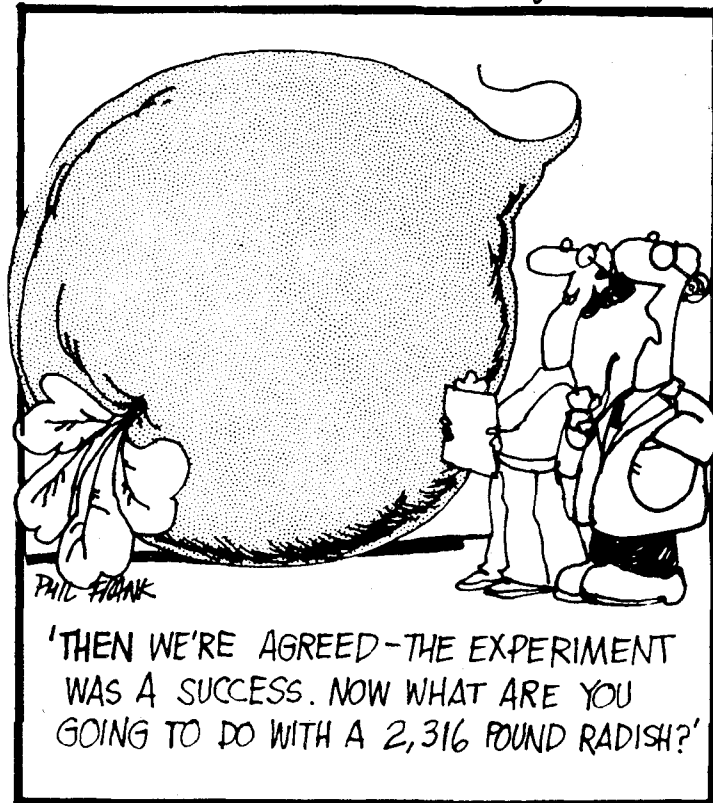
To qualify for employment, an applicant must be at least 16 years of age by July 30, 1973, in good health, and have average intelligence, a pleasant personality, and parental permission (if under 18 years of age). Hair can be any length. Pay is \$185.00 per tour (average length 8 days)

plus free food, lodging, and jet and travel fare.

If two or more students wish to spend the summer working together, Odyssey Enterprises will do their best to schedule this when informed. It is not necessary to work the entire summer; it is perfectly all right to work only part of it. When writing to request an employment application, please inclose a self-addressed, stamped envelope for speedy processing. Write to: Summer Jobs, Odyssey Enterprises, Box 1041, Castroville, California 95012. Odyssey Enterprises is an equal opportunity employer.

"FRANKLY SPEAKING"

by Phil Frank



'THEN WE'RE AGREED—THE EXPERIMENT WAS A SUCCESS. NOW WHAT ARE YOU GOING TO DO WITH A 2,316 POUND RADISH?'

Post Office Box 1523 East Lansing, Michigan 48823

The CALIFORNIA Tech

Thursday, April 19, 1973
Volume LXXIV Number 25

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The opinions expressed in all articles are those of the author and do not necessarily reflect those of the editors, the newspaper staff, or the corporation.

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The California Tech Publication Offices: 107 & 115 Winnett Center 105-51, California Institute of Technology, 1201 East California Boulevard, Pasadena, California 91109. Telephone: (213) 795-6811 extension 2154. Printed by News-Type Service, 125 South Maryland Avenue, Glendale, California. Represented for national advertising purposes by National Educational Advertising Services, Inc. Second class postage paid at Pasadena, California.

Subscriptions ... \$1.50 per term

\$4.00 per year

Life Subscription ... \$100.00

More Editorial . . .

Friday, and Saturday nights.

Last year, *H.M.S. Pinafore* was presented to two packed houses. *The Pirates of Penzance* will come alive in three performances this weekend, hopefully to the same-sized audiences. The continuance of the ASCIT musical depends on its financial success this year. You came through last year—let's do it again. Support *The Pirates of Penzance!*

—Gavin D. Claypool
Eric H. Eichorn
Dennis L. Mallonee

The *California Tech*, in an effort to become more relevant to student concerns and interests, hereby announces a new news/commentary feature. Any member of the Caltech community who wishes to have questions about Caltech answered, by particular people or by whoever is appropriate, is invited to send his question to the *Tech*, at mailing code 105-51, and we will attempt to obtain written responses to these questions, for publication in the *Tech*, as space permits. In the immediate future we hope to print commentaries on the size of the undergraduate student body and the optimal number of students to be placed in on-campus housing.

“ . . . No Nothing.”

Moles Overcome Nasty Fire Door

by E. Squirrel Mole

A seven-foot steel fire door which had been protecting the roof of Millikan Library from roof freaks, marauders, drunks, and other harmless Techers mysteriously disappeared from said roof late Friday night, or possibly early Saturday morning. Some of the members of Blacker House were vaguely implicated in the affair. While a member of the *Tech* staff obviously would not be involved in such a crime, we have obtained sufficient information from those on the scene to reconstruct the events of the evening.

At roughly 10:00 p.m. Friday approximately a dozen Moles, one Darb, and one other person of dubious description drifted into the library in two's and three's. Armed with concealed tools of the trade, they aroused only casual suspicion from the ever-watchful library sitter, Bergendahl Hawkins.

LP1 Grade: A+

The team ascended to the roof level, preparing to remove the door from its restrictive

position. The main block to progress at this point was the Sargent Keso lock (advertised by the manufacturer as “pick-proof”) which had been installed a few days earlier. This impediment, however, was not only anticipated, but was the very thing that provoked the escape. A non-destructive method of gaining access to the roof had already been devised. Having thus gotten the door open (we haven't been able to convince anyone to disclose the exact method employed, although Physics was mentioned) the group detached it.

The door was transported to ground level (by elevator, except for the first and last stories). Two avenues of escape were then open: 1) the main lobby door, which might arouse more than casual suspicion in the library sitter, and 2) the emergency exit, which is equipped with two noisy alarms. The latter method was chosen, since alarms are easier to deactivate than library sitters. With wrenches, lock picks, and the diversion of the library sitter, a squirrely sort was able to silence both alarms.

Signed, Sealed and Delivered

With the last obstacle removed, the team carried out the door, entered the nearest steam tunnel, and spirited the prize to Blacker House. After having the signatures of the persons involved, those of random Moles, a message to the Safety and Security Office, and other obscene matter affixed to it, it reappeared in that office the following Monday morning.

After the door was safely hidden, but before it had been returned, some of the culprits returned to the scene of the crime, finding that Millikan had been closed early (1:30 a.m.). They also found a somewhat boggled Security Officer (Sgt. Durlinger) and a very boggled library sitter (Hawkins). Part of the ensuing conversation was overheard:

“No Marks . . . No Nothing”
Sgt. D: “Where's my door?”
Chorus: “What door?”

Sgt. D: “How did you get up there? Did you pick it or something?”

Mole 1: “But the manufacturer says Keso locks can't be picked.”
Mole 2: “Didn't you hear the helicopter?”

Mole 3: “Ask the library sitter.”
Sgt. D: “It was a neat job; no marks . . . no nothing.”

Sgt. D: “When did it happen?”

Darb: “When did you find out?”

Sgt. D: “About 12:30.”

Mole 4: “Then it probably happened before 12:30.”

Sgt. D: “You'll bring it back, won't you?”

Polack: “That thing's heavy . . . I'm told.”

Sgt. D: “If it doesn't come back by Monday we'll be in trouble.”

Moles: “We'll leave it where you can find it.”

Sgt. D: “You'll stay away from here the rest of the night, won't you? We're short-staffed and we can't afford to keep answering alarms.”

Polack: “Why don't you just ignore any more alarms you get tonight? It'll be us.”

Sgt. D: “We can't ignore them. We have to respond to every one.”

Polack: “Then why don't you disconnect them?”

Sgt. D: “I can't disconnect them.”

Squirrel: “Why not? I did.”

Sgt. D: “Do me a favor and don't get into any more mischief.”

The writings on the door proved to be difficult to remove, and are still on exhibit on the door. It is, by the way, reinstalled on the roof, but with the regular lock it had previously, rather than the Keso. Apparently the Safety Office has learned the error of its ways.



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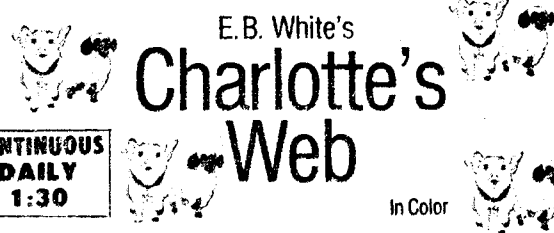
Come see us for more details on the Medical Education Program. We're located between the Housing Office and the Athenaeum tennis courts.

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CONTINUOUS DAILY 1:30

In Color

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CO-FEATURE: MARK LESTER—JOHN MILLS IN

“RUN WILD, RUN FREE”

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APRIL 25 — “SAVE THE TIGER”
MAY 9 — INGMAR BERGMAN'S “CRIES & WHISPERS”



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The Underground Ear



A few years ago, a few very daring record stores began selling something unusual. It was a record album, yes, but with no fancy cover, no record company trademark, and oddest of all, no named feature artist. It just said "Great White Wonder" and listed a bunch of songs. There were rumors that it was a Bob Dylan album, recorded without Columbia's permission, and being "bootlegged." Soon more "bootlegs" followed, and underground albums became a hit. Unfortunately, from some points of view, too big a hit. Record companies got the Feds to crack down on the manufacturers of these albums and they became scarce. They are still around, though in a few stores.

The reason for this column is that, for obvious reasons, very few of the bootlegs were ever

reviewed in newspapers. Therefore, unless you heard a friend's copy, you were buying a pig in a poke, and sometimes worse. Some bootlegs were of studio quality, and others terrible. Even the location of the recording (concert or studio) was of little help since, there do exist both good live recordings and lousy studio ones.

Anyway, from time to time, this column will give short reviews of the bootlegs. If any interest you, just look around. They still exist. Now for a sample review.

Shine on Live: Procol Harum

This bootleg was recorded at a concert just before the release of "Broken Barricades." It contains "Simple Sister," "Salty Dog," "Broken Barricades," and other songs from that point in the history of this group. The recording quality is good for a live bootleg, with a slight amount of tape hiss from the recorder used. Musical quality: good. Historical value: limited. Pressing quality: excellent.

-Nick Smith



Some of you remember a tune from 1963, *Mariah*. The artist who had that hit is at the Ice House this week. Tim Morgan leads the audience through a sort of nostalgic tour backwards through rock and roll as he challenges them to remember whose hit it was. He starts with tunes like *Sittin' on the Dock of the Bay*, *Let the Good Times Roll*, and ends up with a good version of some Elvis, complete with pelvis.

The two lead-in acts are quite reasonable. The male duo of Kolhain and Candee got off to a poor start, first with poorly balanced mikes, and then doing a version of *Killing Me Softly* that was mechanically good but unsuited to their style. The quality

rapidly improved with the advent of a song by Candee, *I Was Met By A King*, and they had a good sound for the rest of their act.

Denny Johnston is the second lead-in. Recently there have been a lot of commercials using famous movie stars to sell a product. Johnston uses some excellent imitations to put stars like John Wayne selling products like kitchen appliances. He even goes so far with his impersonations as to recast a famous film of the '30's, which he retitles *Reefer Roundness*.

The show this week is good, especially for those of you that wish to be reminded of the music of the mid-60's. It runs until April 22.

-Karl Kuhlmann

We Won!

Continued from Page One

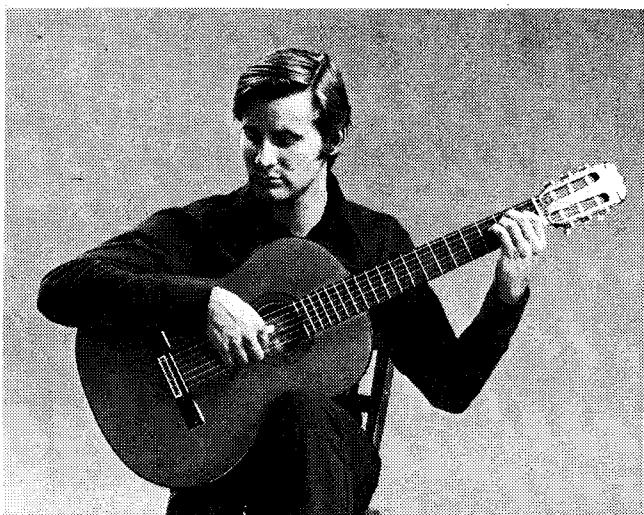
catcher's glove, Howell slid home—beating the pitcher and the throw to the plate and ended the game.

Caltech again meets Oxy in a double header at Oxy this Saturday.

R H E
Oxy 103 021 100-8 9 5
CIT 410 200 002-9 10 2

classical guitarist

Christopher Parkening



Student rush tickets available for only

\$1

with valid Caltech ID beginning at 7:45

Beckman Auditorium

Tuesday, April 24

8:00 p.m.



Photo by Dave Peisner

Pirating Continued

Continued from Page One

Joe's true love), who apparently suffered brain damage as a youth, takes a liking to Fred and invites him home to play cards. Unfortunately the girls are being held captive. Major-General Stanley shows up then and in the confusion ("Hey, I thought this was *Penzias*." "Isn't he the ship's porter?") the girls slip away along with Fred who leaves to play cards, thinking his term is up.

Right as Fred starts to raid the pirates' Saturday night poker

game, the Pirate King (Jim Hugg) and Ruth convince Fred he's five years old and hence his term isn't up. (Fred isn't too bright either.) Fred rejoins the party, and I got confused.

Anyway

Anyway, dress rehearsals (what I just left) are usually much worse than the actual performance, and this was quite good. The musical will be performed tonight, tomorrow, and Saturday nights, with general admission \$3 and admission for Techers a (very!) mere \$1.

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Esso To Fund Summer Research In Chem E.

Special funds made available by the Esso Foundation will be used to provide opportunities for about six students to carry on undergraduate research in chemical engineering for this coming summer. As in past years we will increase the grants by utilizing the research funds of individual faculty members. Preference will be given to students currently enrolled in Chemical Engineering as Sophomores or Juniors, or to any Freshman.

Each grant carries a stipend of \$960, and it is expected that the recipients will devote 40 hours per week for 12 weeks exclusively to their research.

The grantees are entitled to receive 40 units of credit in ChE 80, Undergraduate Research. In previous years, such grants have been tax free: but no guarantees can be made.

Each student will work under the supervision of a staff member. He or she may work on a problem that the student suggests, provided the staff member approves and agrees to provide the necessary supervision, or the work may be on a problem suggested by a staff member. In any case, the purpose of the work is to provide an opportunity for the student to learn how to do independent research, and not to function merely as a research assistant.

Students who wish to apply for these grants should discuss research possibilities and plans

Continued on Page Eight

Bond

Continued from Page One

anything else at all. What they mean is that they spent a weekend in New Hampshire campaigning for McCarthy, and that didn't work, that they went to Washington and marched around the Pentagon four times and the war didn't stop, that they once knew someone whose girl had a brother who was a Weatherman."

The prescription for better national health involves a coalition of "the blacks, the poor, and those tired of crime in the streets, and of crime in the suites." In particular, Bond said, blacks must be permitted a greater part in the decision-making processes: "We have been taken by tokens too long... the history of the blacks in America

is one of our proposing, and everyone else disposing."

Xmokx Xibnzlx

"There is a large job to be done. We may succeed or we may not, but it is clear that the job cannot be attempted as long as we try to 'smoke' America to her knees. Now that a peace of sorts has come to a part of Southeast Asia, the struggle for peace must come home. We must forge new allies out of historical enemies in the face of the magnitude of the task before us."

Bond then answered questions from the audience. In response to a question on his views about busing for better education, Bond said that he favored busing "for better education. I think it's all right as long as the distances involved aren't too great, and as long as the buses go the way that most American highways go: two-way. After all, busing is an



old American tradition. I don't think that people object to the little yellow school bus, just the little black bodies in it."

A question about his future political ambitions elicited from Bond a noncommittal goal of being "a good public servant," and when another questioner inquired if Bond would be eligible for national office in 1976 (Bond was placed in nomination for the Vice-Presidency in 1968 but was too young), Bond replied, "Yes, but many are called..."

After the lecture, Bond also met with interested people for an unscheduled discussion in Winnett Center. Due to some confusion, apparently with Bond's agents, the scheduled discussions on Friday had to be called off, as Bond was not available.

Pirates, Parkening Announced

by Marc Donner

Happy Lexington and Concord Day! This day in 1775 the "first" battle of the Revolutionary War was fought at Lexington and Concord. In the spirit of the holiday the ASCIT musical (operetta) will open tonight in Ramo Auditorium. Pie Rates of Penn's Aunts will run for three nights and, according to reliable sources, should be worthwhile. Tickets are \$3 general admission, \$2 non-Tech students, and \$1 for Techers.

On Monday next (April 23) Nicholas George, professor of EE, will speak on "Holograms and Lasers." Dr. George will discuss and demonstrate his trained three-D pictures and will describe a new technique for eliminating the speckling characteristic of all holograms. He will discuss other benefits of laser optical systems including image enhancement and "robot vision."

Parkening Performs

Tuesday, April 24 will be the last of the Art of the Guitar series featuring a recital by Christopher Parkening, often considered the leading classical guitarist in America. Parkening, a native Californian, is currently the head of USC's guitar department.

He began to study the guitar at the age of 11 and his first teachers were the famous Celedonio and Pepe Romero. In 1963 he made his formal concert debut at the age of 12 and was engaged by the L.A. Philharmonic and the Pasadena Symphony. In 1964 he was accepted as a student by Andres Segovia at UC Berkeley and in 1966 he

began studies at USC. In 1968 came his first national tour and has since appeared with many great orchestras and made several successful recital tours.

Parkening will perform works by Dowland, Bach, Scarlatti, Ravel, Debussy, and Villa Lobos.

Coleman Auditions

Young chamber groups from as far away as New York, Texas, and Indiana will be in Pasadena during the weekend of April 27, 28, and 29 to compete in the 27th annual Coleman Chamber Music Auditions. The public is invited to attend the auditions, which will be held in Ramo Auditorium.

The Auditions begin on Friday, April 27 at 4:00 p.m. with the three ensembles accepted for the Junior Division. No member is over the age of 7,884,000 minutes. They will be followed at 7:30 p.m. by six Intermediate groups, whose members must be 1.581 years. Judging these divisions are cellist and conductor Alexander Reisman, flutist Sheridan Stokes, violinist Dorothy Wade, and conductor Michael Zearott. Eleven Senior ensembles, no member over 178 Mercurian years will perform on Saturday, beginning at 1:00 p.m. Judging that division are violinist Israel Baker, flutist Louise DiTullio, composer and pianist Karl Kohn, cellist Lucien LaPorte, and clarinetist Hugo Raimondi.

The winning ensembles will perform in concert on Sunday afternoon, April 29, at 3:30 p.m. in Ramo Auditorium. 50 tickets for the concert are available free and 50 at \$1 at the ticket office. The Auditions themselves are open to the public at no charge.

THE ASSOCIATED STUDENTS OF THE CALIFORNIA INSTITUTE OF TECHNOLOGY PRESENT THE SIXTH ASCIT MUSICAL

The

Pirates of

Penzance

by Gilbert and Sullivan

April 19, 20, & 21

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Ramo Auditorium

Baxter Hall of the Humanities

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Fulbright-Hays Award Application Period Opens

Applications for senior Fulbright-Hays awards for university lecturing and advanced research during 1974-75 in over 75 countries are now being accepted. The booklet on the program for this period is available on request to the Committee (2101 Constitution Avenue, N.W., Washington, D.C. 20418), and it may be consulted at the office of the Faculty Fulbright Adviser, Dr. Stirling L. Huntley, 204 Dabney.

Application requirements include: U.S. citizenship; for lectureships, college or university teaching experience; for research awards, a doctorate or, in some fields, recognized professional standing as demonstrated by faculty rank, publications, compositions, exhibition record, etc.

July 1, 1973 is the deadline for applying for most of the announced research in local currency to cover normal living costs of the grantee and family while in residence abroad, and round trip travel for the grantee (transportation is not provided for dependents). For lecturers going to most non-European

countries, the award includes a dollar supplement, subject to the availability of funds, or carries a stipend in dollars and foreign currency, the amount depending on the assignment, the lecturer's qualifications, salary, and other factors.

Another News Brief

The first Bi 1-Dabney House White Elephant Egg Hunt is coming! The celebration is planned to commence at 8 p.m. tomorrow in Dabney Courtyard. Free beer soft drinks, chips, and other random condiments will be available, and the extraordinary Dabney House bar will be open. Entertainment will be provided by the Dabney House Band. A tentative special appearance of Dr. Dan McMahon is anticipated. Come see the interesting Easter Elephants!

Oliver Defeated In Director Bid

by Etaoin Schroedlu

Caltech professor Robert W. Oliver lost his bid to be returned to the Pasadena Board of City Directors this week. A relatively large voter turn-out at the polls re-elected current incumbent Don Yokaitis, the current Mayor of Pasadena, by a margin of 10,582 to 6,521.

Oliver, Caltech associate professor of economics and long active in Pasadena civic affairs, had served on the Board of Directors from 1965 to 1969. In the district primary this past March, Oliver gained enough votes to enter the city-wide run-off against Yokaitis.

In the same run-off, Henry Wilfong was elected to the Board as the representative from District Three. Wilfong, a black, gathered 9,230 votes to 7,333 for Robert Amesquita. The above totals are unofficial.

Cycles: Bi- And Motor-

by Thumper

Motorcycles

Registration. An application for original registration of a motorcycle must be accompanied by a tracing, tape lift, or photograph of the motor and frame numbers, or where such facsimile cannot be obtained, a verification of the number. Previously, only a tracing was acceptable.

Headlamps. Every motorcycle manufactured and first registered on and after January 1, 1975 must be equipped with at least one and not more than two headlamps which automatically turn on when the motorcycle is started and which remain lighted as long as the engine is running.

Bicycles

Facilities. The California Highway Commission and the Department of Public Works are

required to set aside in each annual budget report at least \$360,000 for construction of bicycle facilities to be used in conjunction with the state highway system. A "Bicycle Lane Account" has been established, to which \$30,000 must be transferred monthly from gasoline tax revenues, and such funds are to be allocated for city and county bicycle land projects. Where the separation of bicycle traffic from motor vehicle traffic would increase the traffic capacity or safety of a highway, state funding would be used for construction of, and acquisition of rights-of-way for, bicycle lanes.

Registration and Licensing. Commencing July 1, 1975, a statewide registration and licensing system for bicycles will become effective. A \$3 license fee will be imposed. No bicycle may be sold unless it has a unique serial number stamped or cast into its head. After July 1, 1976, it will be a misdemeanor to ride, move, haul or leave standing an unlicensed bicycle.

Classified Ads

HELP WANTED

Child-oriented, responsible housewife/student to pick up 5 yr. old from Pasadena school 3:30 until 6:30 p.m. Mon-Fri. Prefer housewife w/child. Student with good refs OK. 9-6 p.m. 624-1451 ext. 222; after 6 p.m. 441-2188.

TRAVEL

Europe-Orient Flights/Charters; reg/youth/SOFA; Intl. ID cards; Railpasses. EXITS/AIS, 9056 Santa Monica, L.A. 90069; 274-8742.

Third year of CHARTER FLIGHTS to Europe for Caltech/JPL. Contact Dr. Mandel, x 1078 or 476-4543.

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MISCELLANEOUS

Abortion thoughts? Feel alone? Call us! We'll help. 24 hr. free confidential service. 444-4357.

Buying or selling something? You, too, can take out an ad in the California Tech!!! \$1.50 per inch plus 25¢ per extra line for Classifieds. Bring ad copy to the Tech office, or phone ext. 2154. O.K.?



MAKE YOUR OWN PEACE

The signing of a ceasefire does not end our work for peace in Vietnam. You can take positive action, within the realm of your own conscience, to alleviate suffering our country has caused and to prevent its recurrence.

The American Friends Service Committee is substantially expanding its strong, well-established programs of peace action and aid to North and South Vietnam. This is action of extraordinary scope for this Quaker organization which has worked impartially for peace since World War I.

AFSC aid in the Vietnam War began in 1965 with medical assistance to civilians. The Service Committee has supplied penicillin for war sufferers in NLF controlled areas and delivered four installments of surgical supplies to North Vietnam.

In South Vietnam, the AFSC has provided medical care for inmates of the Quang Ngai Province prison, developed a program for refugee children and conducted a widely recognized prosthetics and rehabilitation program for war injured civilians.

In the area of peace action, the American Friends Service Committee has been calling for peace in South Vietnam since 1954. Currently, the AFSC continues to press for release of more than 200,000 civilian political prisoners in Thieu's jails. It is challenging new and disguised forms of intervention such as replacement of soldiers with 10,000 U.S. civilian advisors. It is also supporting a campaign to stop further development and production of anti-personnel weapons.

AFSC programs are working today. We have budgeted over \$1,000,000 for peace action and war relief this year. We now want to increase this by at least another \$1,000,000. If you want to help make peace in this way, send the coupon.

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4 REGISTRATION COURSE CHANGES NAME _____ STUDENT NO. _____

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 A-ADDING COURSE
 D-DROPPING COURSE
 S-SECTION CHANGE
 T-TRACK CHANGE
 U-UNIT CHANGE
 P-COURSE TO BE TAKEN PASS/FAIL

Fill in the appropriate information with an action code. Have this card signed by your advisor and by those instructors affected by the changes. Continue changes on reverse side, if necessary.

Action Code	COURSE BEFORE CHANGE						COURSE AFTER CHANGE					
	Dept.	Number	Trk	Section	Units	Instructor's Signature	Trk	Section	Units	Instructor's Signature		

SIGNATURES:
 Advisor _____ Dean of Students _____
(needed if dropping required courses)

Engineering Profs Honored For Research

Two Caltech faculty members, Dr. Norman Brooks, professor of environmental science and civil engineering, and Dr. Donald E. Hudson, professor of mechanical engineering and applied mechanics, have been elected to the National Academy of Engineering in recognition of their outstanding research.

Brooks, who is also Caltech's academic officer for environmental engineering science, has been active in research on hydraulics problems related to water quality management, fluid turbulence and diffusion, and

density stratified flows. He has been a special consultant for more than 30 different governmental agencies and consulting firms, mostly on design problems of outfalls for sewage and cooling water discharges.

Currently he is involved in the use of laboratory hydraulic models of large thermal outfalls to find the best ways for returning water to the ocean that has been removing the heat from power plants, without adversely affecting the marine environment.

Hudson, a pioneer in the field of earthquake engineering, has a long record of service to federal and state agencies. He helped develop instruments, now widely used, that record ground motions during earth shocks. The instruments provide information vital in designing quake-resistant buildings, bridges and dams.

The National Academy of Engineering was established in 1964. Brooks and Hudson are among 70 newly elected members, bringing the total membership to 429.

Registration

Continued from Page One
 elimination of separate cards for adding classes, dropping classes, changing sections, altering units, and selecting pass-fail grades. The white, blue, green, yellow, and buff cards will give way to just one card, which has spaces to change as many as 14 classes at once, and needs to be signed only once by one's advisor. Theoretically, the one card would be adequate for changing one's entire program.

More Feedback
 After course change cards are processed, a new list of courses will be printed and sent to the student. Dr. Schaefer expressed hope that this would cut down on misunderstandings ("But I thought I dropped that course.") greatly. Also, he hopes to distribute a list of courses and grading scheme for each student about midterms.

Security
 The system keeps the data base either on disk or tape. Probably, the data base will be stored on tape most of the time, and put on disk only during the

first and last weeks of a term, when it would be changed most by course changes or incoming grade reports. While on tape, the data would presumably be absolutely inviolate.

ASAP provides several levels of security ofr when the data is on disk and hypothetically accessible to anyone. Certain pieces of information, such as financial aid data, can be specified as "security" data, and are stored on disk in scrambled form, presumably indecipherable to someone who dumped the disk file.

Shakedown Cruise
 The system will go into effect this summer, and undergo a year's shakedown. Dr. Schaefer said that he expects some difficulties, but hopes that at worst, the system will provide the same service as is now available. After a year, the whole system will be reviewed, and changes made.

Dr. Schaefer said that although the system will produce quarterly grade reports, transcripts will not be produced automatically at least during the first year. However, he did indicate that the record keeping system could be used for many functions now done by hand, such as producing student directories, and doing statistical work for planning course and curriculum changes.

SAMPLE COURSE CHANGE CARD -
 This single card will replace Add, Drop, Pass-Fail, Change of Section, and Change of Units Cards now in use.

News Briefs

Interhouse Bridge

Two weeks after midterms there will be an Interhouse Bridge Tournament. Teams of Four may participate. See your house president or Bulletin Board for more details.

\$5.00; the entire weekend costs \$10. The convention is being held at the LA International Hotel, a reasonable distance approximation to LAX. For more information, see the article in last week's Tech.

Chicken Soup Courtesy of Flora
 This Friday afternoon, April 20, there will be a coffee and tea and chicken soup and hot chocolate and DOUGNUTS gathering in Flora's office in Winnett. Come and visit. It's free.

Movie Showing Has Been Cancelled
 The movie *The Clones*, which was to be screened for Techers this Saturday, has been cancelled. Refunds will not be available, since the movie was to have been shown free of charge. Better luck next time.

Equicon Featured at L. A. International
 Equicon, this weekend's *Star Trek* convention, starts tomorrow at 9 a.m. sharp. Single-day fee is

Equicon, Pirates, Midterms, What Next?
Totem, that's what. Or, more specifically, another *Totem* News Brief. This is the second week of our sexennial subscription drive. Contributions of that nature can be sent to Gavin Claypool (Ricketts). Poetry, short stories, art work, humor, photographs, limericks, and doggerel ("You're really trying for an issue, aren't you?" "Oh, shut up.") can be sent to Philip Massey (Ruddock), Gesine Lohr (o/c Dabney), or Bob Coleman (Ruddock). No cash or charge.

African Observer To Visit Next Week
 Dr. Victor DuBois, who covers West Africa for the AUFS, will be on campus next week. On

Monday, Dr. DuBois will discuss "Will the Ivory Coast's Economic Boom End?" in the Africana Library at 1 p.m.

On Tuesday he will speak on "Zaire, Burundi, Rwanda: Divers Roads from Belgain Colonialism," at noon in the Africana Library. On Thursday, he will present "Environmental Concerns of African Governments" in room 127 Baxter at 4 p.m.

ASCIT Saturday Poker Game
 There will be a poker game this Saturday night at 11:00 p.m. in the ASCIT office. Students and faculty are invited. Beer will be available.

Nobel Editions Still Available
 The Tech still has copies of the Delbrück and Gell-Mann Nobel Prize editions for interested people. The photodryer is finally gone, but the clearance continues. Further details next week.

Jazz Quartet Plays Ice House
West, a jazz quartet composed of four local musicians, will play for one night only at the Ice House on Monday, April 23. They will present two sets, at 8:30 and 10:00 p.m.

The group plays a blend of straight and rock-flavored jazz. They have performed earlier in noon concerts at Caltech and P.C.C.

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Page Tops Interhouse Basketball, Standings

by Bob Kieckhefer

Page House has won its fourth consecutive interhouse sport (basketball) and holds a 17½-point lead over second-place Fleming in the Interhouse Trophy standings. Swimming and football are the only sports remaining on the 1972-73 schedule.

Page, Fleming, and Dabney fielded basketball teams of nearly equal ability. Page won sole possession of first place when it beat Dabney, 30-26, on the last day of the season. The Page Dudes had earlier squeaked past Fleming, 28-25, and the Flems had beaten Dabney, 36-33.

Rik Krueger, Peter Harrow, and Brent Sweitzer led Page to first place. John Steubs, Jim Battey, and Louis Romero played well for Fleming and almost knocked off Page for the championship. Dabney's stars were Rennaye Johnson, Willard Brown, and Gary Frankel.

The Second Division

Ricketts came close to defeating Dabney, but the Darbs held on to win, 25-21. Ed Beckmann was one of the Scurves' leaders. Ruddock, Blacker, and Lloyd

had some close battles for the last three spots. The Rudds edged Lloyd, 38-37, and Blacker, 29-27, to win fifth place. Blacker defeated Lloyd, 36-30, to score its only victory of the season.

The Interhouse Swimming prelims will be held on Tuesday, with diving and swimming finals falling on successive days. Contestants in the 100-yard events must work out five times before Tuesday, so if you haven't started working out, today is the day to start.

Final Basketball Standings

Page	6-0
Fleming	5-1
Dabney	4-2
Ricketts	3-3
Ruddock	2-4
Blacker	1-5
Lloyd	0-6

Interhouse Trophy Standings

Page	266½
Fleming	249
Dabney	152½
Ricketts	149
Ruddock	146½
Blacker	85½
Lloyd	71

Esso Grants

Continued from Page Five

with an appropriate staff member and submit a brief statement (one or two typewritten pages) describing the research proposal, its scientific significance, and its significance for the long-range scientific objectives of the student. These proposals and the attached form should be turned in to Anne Fredericks, 213 Spalding, by April 30, 1973. See your instructor(s) or Dr. C.J. Pings if you need suggestions of appropriate staff members to contact. For your assistance, a list of faculty agreeing to participate is attached along with a brief description of their research interest. Additional information may be obtained from the annual report of the Division and from the 1971 ACS Directory of Graduate Research. Copies of both are available in the library

or may be examined in 213 Spalding.

A freshman who is interested in this program but who does not know any staff member with whom he can work should discuss the general topic with his TA or Dr. Pings. He should then submit a statement concerning the fields of chemical engineering in which he thinks he may be interested in working, any previous experience he may have had, and a summary of his performance in Chem 3. This statement should be submitted by April 30, 1973.

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Pomona Wins

Beavers Prepare For League Meet

With the SCIAAC Championships only three weeks away, the Caltech track team began to round into peak condition with its meet against Pomona last Friday. While losing 97-47, the Beavers generally competed only in their favorite events, which contributed to the lopsided score but also put the team in good shape to win its two remaining dual meets.

Al Kleinsasser ran another solo 880 and, running against the clock, he recorded the best mark of the year in the conference and the second best in the NAIA District III with a 1:53.1. Kleinsasser ran an almost even race, recording the first lap in 54.9 and the second in 58.3. With the proper competition and good weather the star middle-distance runner should break the 1:50 mark this year. His time also places him fifth in the NAIA National 880 times this spring. Kleinsasser also tried the three-mile but dropped out after 1½ miles due to a cramp.

Fan Clubs & Cheerleaders

Haywood Robinson, complete with fan club, continued his winning ways with victories in the 100- and 220-yard dashes. Robinson won the 100 in 10.1 and came back to win the 220 in 22.5. He also competed on the 440 and mile relay teams. It was a windy and cold afternoon which was not conducive to fast marks. Considering all factors, it was another outstanding day for the Beaver sprinter.

Greg Hoit, with special encouragement from the Caltech cheerleaders, ran a personal best in the 440 intermediate hurdles with a mark of 55.7. Hoit ran a strong second half to edge Charles Almquist, who recorded a time of 56.0. Hoit also competed on the 440 and mile relay teams. Hoit, who has improved each week, should run close to 54.0 seconds before the end of the season. He also placed third in the 100-yard dash with a time of 10.5.

Four Miles For Griffin

Greg Griffin, after leading nearly the entire race, finished second in the mile run with a time of 4:31.7. Griffin was

passed by Pomona's Luce in the last 110 yards. The Caltech distance ace returned to the track 90 minutes later to win the three-mile event with a 14:54 mark. Griffin again this week was forced to run most of the way by himself and had another very good race.

Charles Almquist placed second in the hurdles with a mark of 16.3 and also competed in the two relays plus the intermediate hurdles. John Steubs placed third in the 440-yard dash in a time of 53.8 and competed on the 440 and mile relay teams. Steubs also placed third in the long jump with a mark of 19'1½". Dave Webster also competed in the 440 yard dash.

Sure He's Slow, But 76.5?

The two relay events were split between the Beavers and Pomona-Pitzer. Again this week poor baton passing plagued the Beaver's quarter-mile team. After strong legs by Robinson and Hoit the pass from Hoit to Steubs was fumbled. Without this, bad pass the team would have won the event. The Techers competed in

the mile relay to score points as Pomona did not field a team. Caltech established a new mark for slowness with a winning 4:23.5. The relay effort was highlighted by Robinson's 76.5 leg.

Bob Miller, competing in his second meet of the year, uncorked an impressive 168'4" throw in the javelin. Miller will throw much further as the season progresses and his style improves. Miller recorded the outstanding field mark of the meet for the Beavers. The mark was good for third as Pomona was led by Peter with a 216'4½" throw which won the event, followed by Orell with a 211'0" throw.

Brent Sweitzer scored in both the discus and shot put. Sweitzer placed second in the shot with a mark of 45'6" and third in the discus with a throw of 127'5".

This week the Caltech team concludes the home-meet schedule against UCSD. The first field event begins at 1:30 and the track competition starts at 2:15. The Beavers will be seeking their third win of the season.

Sports Menu

3:00 p.m. Tennis	Thursday, April 19	Loyola	Home
1:00 p.m. Golf	Friday, April 20	Cal State Dominguez Hills	Away
12:01 p.m. Baseball	Saturday, April 21	Occidental (doubleheader)	Away
1:30 p.m. Track		UC San Diego	Home
1:00 p.m. Golf	Monday, April 23	Pomona-Pitzer	Away
3:00 p.m. Baseball	Tuesday, April 24	Pomona-Pitzer	Home
4:00 p.m. Interhouse Swimming Prelims			
4:00 p.m. Interhouse Diving	Wednesday, April 25		
4:00 p.m. Interhouse Swimming Finals	Thursday, April 26		
Tennis	April 26-28	Ojai Tournament	
1:00 p.m. Golf	Friday, April 27	Whittier	Away
12:01 p.m. Baseball	Saturday, April 28	Pomona-Pitzer (doubleheader)	Away
1:30 p.m. Track		Whittier	Away

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